

Distributive Property - Expansion

$$a(b+c) \Rightarrow ab+ac$$

$$ie \ 2r^1(1r^1+b) \Rightarrow 2r^2 + 12r$$

$r^1 \times r^1 = r^{1+1} = r^2$

Factoring - Division

$$ab+ac \Rightarrow a(b+c)$$

$$3r^2 + 6r \Rightarrow 3r(r+2)$$

- must have a common factor for all terms in a polynomial

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Simplify

$$i) 4rs + 16$$

$$= 4(rs + 4)$$

$$ii) 2x^2y^2 + 4xy$$

$$= 2xy(xy + 2)$$

$$iii) 9s^2t^3 + 6s^2t^2 + 3s^2t$$

$$= 3s^2t(3st^2 + 2t + 1)$$

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$$4r^2s^2t^2 + 8r^2st^3 - 2st^2$$

$$2st^2(2r^2s + 4r^2t - 1)$$

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Assign q. 4, 5, 7, 9, 18

p. 263- 266

$$\frac{-12m}{3} \quad + \frac{15m}{-3} - \left(\frac{-18m}{6} \right)$$

$$3(-4m) \quad -5m + (+3m)$$

$$-2m$$

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$$18b) 2(5a^3 - b^3) + 6(a^3 + b^3)$$

$$= 10a^3 - 2b^3 + 6a^3 + 6b^3$$

$$= 16a^3 + 4b^3$$

$$4(4a^3 + b^3)$$

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4.2 Factoring p. 262- 266

Opener Review - Distributive Property

Factoring

$$i) -\frac{15r}{5} - \frac{21r}{7} \quad ii) 15x^2 - 5$$

$$iii) 3x^2 - 15x$$

$$iv) 24x^3 + 8x^2 + 4x$$

$$v) 2r^3s^3 + 4r^2s + 2rs$$

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4.2 Factoring p. 262-266

Opener Review - Distributive Property

Factoring

i) $-\frac{15r}{5} - \frac{21r}{7}$

$= -3r - 3r$

$= -6r$

ii) $\frac{15x^2}{5} - \frac{5}{5}$

$5(3x^2 - 1)$

iii) $3x^2 - 15x$

$3x(x - 5)$

iv) $24x^3 + 8x^2 + 4x$

$4x(6x^2 + 2x + 1)$

v) $2r^3s^3 + 4r^2s + 2rs$

$2rs(r^2s^2 + 2r + 1)$

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Sep 19-7:49 AM